

Application No. 09/987,412

lower layer coils and the upper layer coils each having a straight portion and an arm portion bent generally perpendicularly from the straight portion;

an insulating plate interposed for insulation between the arm portion of the lower layer coil and the arm portion of the upper layer coil which are provided axially outside of an axial end surface of the armature core;

a cylindrical body circularly surrounding an outer periphery of a coil end portion that is a part of the straight portion of the upper layer coil, which protrudes axially outside of the axial end surface of the armature core and excludes the arm portion of the upper layer coil, the cylindrical body allowing outer grooves provided between adjacent two of the arm portions of the upper layer coils to open in a radially outward direction; and

a resin insulator filled in an inner groove defined among adjacent coil end portions in a peripheral direction, the axial end surface of the armature core and the insulating plate.

2. (Amended) The rotary electric machine as in claim 1, wherein the cylindrical body is fixed on the outer periphery of the coil end portion with the resin insulator.

Please add new claims 9-11 as follows:

--9. A rotary electric machine comprising:

an armature core having a predetermined number of slots;

an armature coil having a predetermined number of lower layer coils and upper layer coils installed in double layers in each of the slots against the armature core, the lower layer coils and the upper layer coils each having a straight portion and an arm portion bent generally perpendicularly from the straight portion, arm portions of the upper layer coils constructing commutator segments of a commutator;

brushes held for sliding contact with the commutator segments;

Application No. 09/987,412

an insulating plate interposed for insulation between the arm portion of the lower layer coil and the arm portion of the upper layer coil which are provided axially outside of an axial end surface of the armature core;

a resin insulator filled in an inner groove defined among adjacent straight portions of the upper layer coils, an axial end surface of the armature core and the insulating plate; and

a cylindrical body mounted on outer peripheries of the straight portions of the upper layer coils axially outside of the axial end surface of the armature core and fixed therewith with the resin insulator,

wherein the resin insulator is provided separately from the insulating plate and the cylindrical body.--

--10. The rotary electric machine as in claim 9, wherein the cylindrical body is mounted without protruding in an axial direction from a surface of the insulating plate which faces the arm portion of the upper layer coil, thereby opening a groove between the arm portions of the upper layer coils in a radially outward direction.--

--11. The rotary electric machine as in claim 9, wherein the insulating plate is disposed to divide a groove between adjacent upper coil layers into the inner groove and an outer groove axially outside of the armature core, thereby restricting the resin insulator filled in the inner groove from flowing into the outer groove.--

REMARKS

Claims 1-8 are pending. By this Amendment, Fig. 2 and claims 2 and 3 are amended.

Claims 9-11 are added.

The attached Appendix includes a marked-up copy of each rewritten claim (37 C.F.R. §1.121(c)(1)(ii)).